

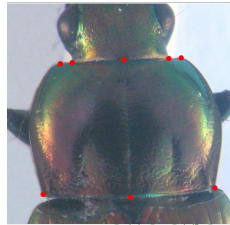
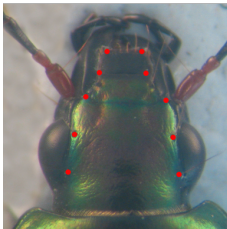
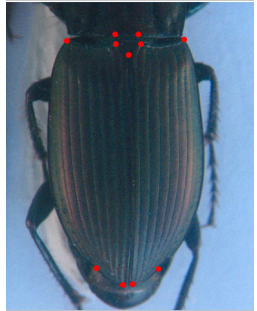
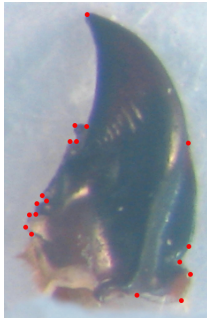
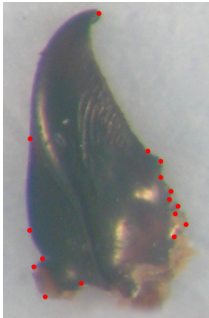
# MorphoBoid Group

## Methods:

- ① Image processing:
  - Segmentation of shape,
  - Image registration,
  - SIFT patch computing to set points of interest.
- ② Deep learning:
  - Convolutional neural networks (CNN) for classifying the images,
  - CNN to predict the positions of the landmarks,
  - Tools: Caffe, Theano, Lasagne.



# Application to Beetle collection: automatised of landmarks setting





# Application to observatory of Vietnam's heritages: images classification



## Team

- ① Marie BEURTON-AIMAR
- ② Jean-Pierre SALMON
- ③ Nicholas JOURNET
- ④ Van Linh LE
- ⑤ Xuan Thanh PHAM
- ⑥ Manh Tu VU

## Collaborations - LaBRI

- ① Team *Distributed Algorithms*: Akka ZEMMARI
- ② Team *MABioVis*: Joris SANSEN

## Collaborations - Others

- ① *INRA Rennes*: Nicolas PARISEY
- ② *AUSONIUS*: Marie-Pierre CHAUFRAY
- ③ *L3i La Rochelle*: Muriel VISANI
- ④ *Heritage Observatory*: Daniel CAUNE
- ⑤ *ICube, Strasbourg*: Adrien KRAHENBUHL